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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,307	12/10/2004	Hiroto Kikuchi	259431US0PCT	3909
	7590 03/20/200 AK, MCCLELLAND,	EXAMINER		
1940 DUKE STREET ALEXANDRIA, VA 22314			KOSAR, AARON J	
			ART UNIT	PAPER NUMBER
			1609	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE	
31 DAYS 03/20/2007		03/20/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 31 DAYS from 03/20/2007.

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	Application No.	Applicant(s)				
v v	10/516,307	KIKUCHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Aaron J. Kosar	1609				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statuf Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA 136(a). In no event, however, may a reply d will apply and will expire SIX (6) MONTHS te, cause the application to become ABAN	TION. be timely filed S from the mailing date of this communication. DONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 10 L	December 2004.					
2a) This action is FINAL . 2b) ⊠ Thi	This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.				
Disposition of Claims						
4) ⊠ Claim(s) <u>1,4-6,13-26,29-33 and 35-42</u> is/are page 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) <u>1,4-6,13-26,29-33 and 35-42</u> are substantial subst	awn from consideration.	ion requirement.				
Application Papers						
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the c	cepted or b) objected to by e drawing(s) be held in abeyance.	. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).				
,—	.xammer. Note the attached o	100700000010000710000				
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Applority documents have been received in Applority documents have been received.	lication No ceived in this National Stage				
Amarkon antia)	•					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Sum	mary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/M	hail Date mal Patent Application				

DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1, 4, 5, 14-22 are drawn to methods of purifying crude and >90% pure difructose dianhydride III (DFA III) solutions using active carbon.

Group II, claim(s) 6 is drawn to methods of purifying DFA III chromatographically.

Group III, claim(s) 13 is drawn to methods of purifying a DFA III by centrifugation of a syrup.

Group IV, claim(s) 23 is drawn to the composition consisting of >95% purity DFA III crystals.

Group V, claims 24-26 are drawn to a process of making a DFA III solution.

Group VI, claim 30 –33 are drawn to a process of purifying a <70% pure DFA III solution by the action of yeast, defecation-filtration, and/or chromatography.

Group VII, claims 35-41 are drawn to a method of making a fructosyltransferase comprising microbial enzymatic production in an inulin medium.

Group VIII, claim(s) 42 is drawn to a biologically pure Arthrobacter sp. culture.

2. The inventions listed as Groups I-VIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Groups I-III,V-VII are drawn to methods of making and methods of purifying DFA III; however, this shared technical feature cannot be considered a

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special technical feature as it has been shown in the prior art (JP 03259090 A) a method for preparing DFA III (Derwent, english abstract, line 1). The method of the prior art further teaches purification using centrifugation, filtration, and passage through activated carbon and silicates (Derwent- english abstract, lines 7-9). Group IV lacks unity from Groups I-III,V-VIII in that the purity and *crystallinity* of DFA III in Group IV does not share the same technical details as a *process of crystallizing* DFA III. Group VIII lacks unity with groups I-VII in that a biologically pure organismal culture versus preparation and purification of DAF III would require different conditions and would have different use in the art.

- 3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 4. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. <u>All</u> claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

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In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained.

Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Conclusion

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

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Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron J. Kosar whose telephone number is (571) 270-3054. The examiner can normally be reached on Monday-Thursday, 7:30AM-5:00PM, ALT. Friday, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mary Mosher can be reached on (571) 272-0235. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Aaron Kosar
Patent Examiner

DANIEL M. SULLIVAN, PH.D. PRIMARY EXAMINER